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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,727	07/17/2003	Richard P. Wool	00131-00339-US	1581
23416	7590 06/09/2005		EXAMINER	
CONNOLLY BOVE LODGE & HUTZ, LLP			CHEUNG, WILLIAM K	
P O BOX 220° WILMINGTO	7 N. DE 19899		ART UNIT	PAPER NUMBER
	, 22		1713	

DATE MAILED: 06/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/621,727	WOOL ET AL.	
Office Action Summary	Examiner	Art Unit	
	William K. Cheung	1713	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet v	ith the correspondence address	;
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. t 1.136(a). In no event, however, may a reply within the statutory minimum of thiod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communi BANDONED (35 U.S.C. § 133).	ication.
Status			
1)⊠ Responsive to communication(s) filed on 28	8 Anril 2005		
	his action is non-final.		
3) Since this application is in condition for allo		tters, prosecution as to the mer	its is
closed in accordance with the practice under	•	• •	
Disposition of Claims		,	
· <u> </u>	ing in the combination		
4) Claim(s) <u>1-4,6,11-14 and 16-18</u> is/are pend	= '''		
4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed.	rawii iioiii consideration.		
6) Claim(s) is/are allowed.	tod		
7) Claim(s) is/are objected to.	ieu.		
8) Claim(s) are subject to restriction an	d/or election requirement		
· · · · · · · · · · · · · · · · · · ·	a/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	iner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to t	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the con	•		
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage	e
Occ the attached detailed Office action for a	not of the certified copies no	. 10001404.	
AMostor and a			
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) 🗖 Intervious	Summary (PTO-413)	
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date		Informal Patent Application (PTO-152)	

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DETAILED ACTION

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- 1. The examiner acknowledges the receipt of Amendment after Final filed April 28, 2005, the amendment has been entered and claim 15 has been cancelled. Claims 1-4, 6, 11-14, 16-18 are pending.
- 2. In view of Amendment after Final filed April 28, the rejection of Claims 11-14, 16, 18 under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Wool et al. (US 6,121,398) is withdrawn. Further, in view of new rejection set forth in instant office action, the allowance of claims 1-4, 6, 15, 17 is withdrawn.
- 3. In view of new issues set forth in instant office action by the examiner, the instant office action has a status of "non-final".

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

4)

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-4, 6, 11-14, 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Booth (US 2,059,930).

The invention of claims 1-4, 6, 17 relates to a **low dielectric constant material** comprising a **plant oil** and **animal feathers** wherein said feather are **feather mats**.

The invention of claims 11-14, 16, 18 relates to a **low dielectric material** comprising a **plant oil** and **animal feathers** and the material has a **dielectric constant in the range of 1.7 to 2.7** measured at 25 °C and 100 Hz and said feathers are **feather mats**.

Booth (page 1, first col., line 10-11) discloses that it is possible to use ordinary goose feathers in the shuttlecock. Booth (page 1, first col., line 46 to page 2, second col., line 4-9) discloses that shuttlecock comprises a wick containing olive oil or any oil that can be drawn through the quills and feathers by capillary attraction. Further, Booth (Figure 1-3) clearly discloses knitted feathers attached to cork fastened with a wick containing olive oil or any other oil.

Because applicants' specification fails to provide a meaning for what is considered a "mat", the examiner has a reasonable basis to use the plain meaning of

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the recited term "mat" from an English Dictionary. According to Merriam Webster's Collegiate Dictionary, 10th Edition (page 716), "a mat" can be defined as "something made up of densely tangled or adhering strands esp. of organic matter". Therefore, the examiner has a reasonable basis to believe that the claimed "feather mats" has been met by the disclosure to Booth.

Regarding the recited "soybean oil" of claim 2 and 12, Booth (page 1, first col., line 46 to page 2, second col., line 4-9) clearly discloses that any oil that can be drawn through the quills and feathers by capillary attraction can be used. Therefore, the examiner believes that the readily available "soybean oil" and have viscosity properties that are similar to those of olive should be capable of being drawn through the quills and feathers by capillary attraction. Therefore, the teachings of Booth does embrace the teaching of "soybean oil".

Because material as disclosed in Booth is substantially identical to the composition as claimed, basically a plant oil and animal feathers, the examiner has a reasonable basis to believe that the claimed "low dielectric constant" feature of claim 1 and 11, and the insulator properties of claims 17 and 18 are inherently possessed in booth.

In view of the reasons set forth above, claims 1-4, 6, 11-14, 16-18 are anticipated.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William K. Cheung

Primary Examiner

WILLIAM K. CHELING PRIMARY EXAMINER

June 6, 2005